

Abstract of the Disclosure**ENZYME CATALYZED THERAPEUTIC AGENTS**

5 This invention provides a method for identifying potential therapeutic agents by
contacting a target cell with a candidate therapeutic agent which is a selective substrate for an
endogenous, intracellular enzyme in the cell which is enhanced in its expression as a result of
selection by biologic or chemotherapy. This invention also provides methods and examples
of molecules for selectively killing a pathological cell by contacting the cell with a prodrug
10 that is a selective substrate for an endogenous, intracellular enzyme. The prodrug is
subsequently converted to a cellular toxin. Further provided by this invention is a method for
treating a pathology characterized by pathological, hyperproliferative cells in a subject by
administering to the subject a prodrug that is a selective substrate for an endogenous,
overexpressed, intracellular enzyme, and converted by the enzyme to a cellular toxin in the
15 hyperproliferative cell.

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